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# *Western Indian Ministries, Inc.*

P.O. BOX F • WINDOW ROCK, ARIZONA 86515 • (505) 371-5749

April 27, 1993

Federal Communication Commission  
Washington, D. C. 20554

Greetings,

Please find enclosed our request to upgrade  
our channel assignment.

There are multiple copies for each commissioner.

Sincerely,

*Laurence Harper*

Laurence Harper  
General Director

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MARCH 1993

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PROPOSED KHAC-FM  
WESTERN INDIAN MINISTRIES, INC.  
CH. 274C1 102.7 MHz  
WINDOW ROCK, ARIZONA

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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

## ENGINEERING STATEMENT

Concerning a Petition for Rulemaking to allocate FM Channel 274C1 to replace Channel 276A at Window Rock, Arizona.

Western Indian Ministries, Inc. has received a Construction Permit for a new Class A facility on Channel 276 103.1 MHz (File BPH-910610) to serve Window Rock, Arizona. Western Indian Ministries, Inc. wishes to upgrade the Window Rock allocation to Class C1 on Channel 274 in order to provide improved service to Window Rock and its market area.

Vir James, P.C., Consulting Radio Engineers, has been retained by the Petitioner to determine and show that the above-described allocation may be made within the requirements of the FCC Rules and Regulations.

There are no existing unused allocations or pending rulemakings for comparable assignments to Window Rock or nearby communities as of the date of this statement.

This would be the second wide area commercial FM service to Window Rock, a city of 2,230 population according to the 1980 census. Window Rock is seat of government for the Navajo Indian Nation.

## ALLOCATION STUDY

Availability of Channel 274C1 to Window Rock was determined by computer aided study of all existing stations, pending applications and pending rulemakings within 330 km of the Reference Site.

## Reference Site:

NL: 35 deg 35 min 00 sec

WL: 109 deg 02 min 00 sec

All distances from this site to stations were computed using the tables of FCC Rules Section 73.698. All distances are in the metric system.

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The separations for the proposed channel assignment are as follows:

Window Rock, AZ Channel 274C1  
Table of Near Facilities

CH.	FREQ	COMMUNITY	CALL	SEPARATION ACT.	MIN. REQ.
271C	102.1	Farmington, NM	KTRA	171	105
272C3	102.3	Espanola, NM	KIOTCP	285	76
273C2	102.5	Los Lunas, NM	KOYTCP	212	158
274C	102.7	No Station Within 330 km			
275C	102.9	Kirtland, NM	KMYICP	213	209
276C2	103.1	San Carlos, AZ	ADD	290	79
277C	103.3	Albuquerque, NM	KASY	237	105

There are no stations operating 10.6 or 10.8 MHz separated from 102.7 MHz within 50 km so no Intermediate Frequency interference can result.

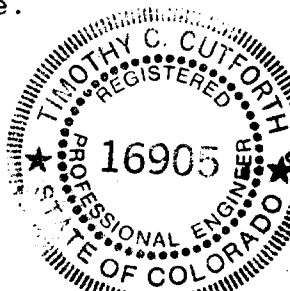
The proposed Channel 274C1 assignment to Window Rock meets the separation criteria for assignment as set forth in Section 73.207 as amended to date.

From this study it has been determined that the Table of FM Allotments, Section 73.202 of the FCC Rules may be amended as follows:

Community	Present	Proposed
Window Rock, AZ	241C, 276A	241C, 274C1

Such an amendment of the Table of Allotments would be in full compliance with the FCC Rules and Regulations as amended to date.

Respectfully submitted,



*Timothy C. Cutforth*  
Timothy C. Cutforth P.E.  
30 March 1993

STATE OF COLORADO

EXHIBIT E-1B-1

CITY AND COUNTY OF DENVER

TIMOTHY C. CUTFORTH, BEING DULY SWORN, STATES

That he is a Consulting Radio Engineer with offices located at 965 South Irving Street, Denver, Colorado 80219.

That he is President and Director of Engineering with Vir James, P.C. Consulting Radio Engineers, Denver, Colorado.

That he received a degree of Bachelor of Science, with major in Electrical Engineering from Colorado State University at Fort Collins, Colorado in 1972.

That he is a Registered Professional Engineer (No. 16905) in the State of Colorado.

That he is a certified Professional Broadcast Engineer (50046) by the Society of Broadcast Engineers, Inc.

That he is a member of the Society of Broadcast Engineers, Inc. (No. 3813).

That he is a full member of the Association of Federal Communications Consulting Engineers.

That he is a member of the IEEE.

That he is a qualified and experienced Radio and Television Engineer whose qualifications are a matter of record with the Federal Communications Commissions.

That he is a life member of the Broadcast Pioneers.

That the calculations and/or measurements and exhibits in the accompanying report were made by him personally or under his direction, and that all facts contained herein are true of his own personal knowledge or belief: and on such statements made on belief, they are believed to be true.

Timothy C. Cutforth  
Affiant

Subscribed and sworn to before me

This 3rd day of March 1993

Notary Public Virginia K. Cutforth

Date of Commission Expiration December 21, 1996